HERKULA
HIGH-CHEM SPECIALITY INKS

THAT'S THE WAY WE INK

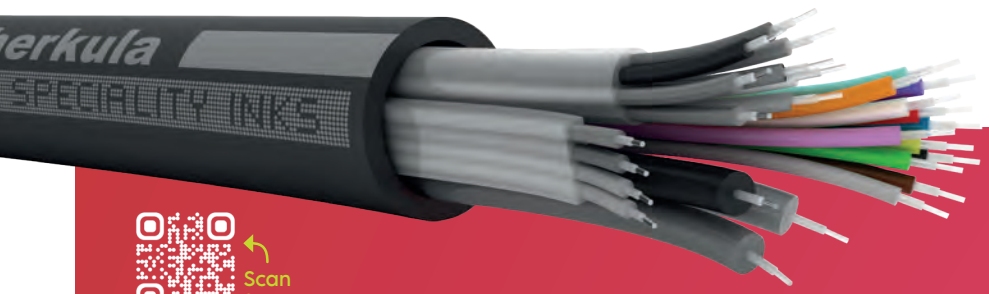
UV INK / UV MATRIX MATERIAL

FIBRECOAT

Manufacturer of speciality inks and coatings:

- Ink
- Tight Buffer
- Compact Fibre Unit
- Ribbon
- Flexible Ribbon


ALWAYS
ON THE
MOVE,
ALWAYS BY
YOUR SIDE!
HERKULA
HIGH-CHEM SPECIALITY INKS



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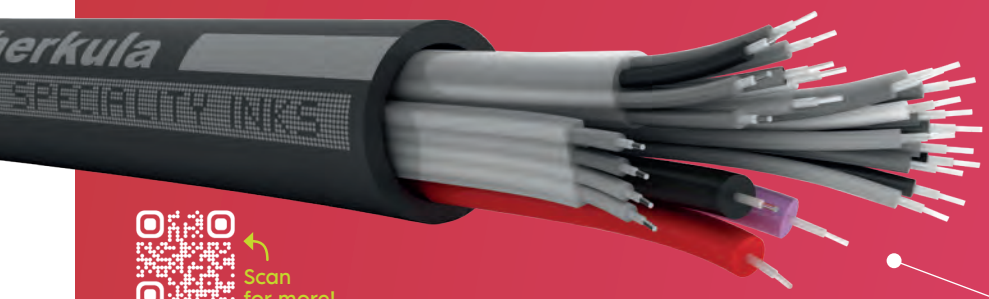
for more!

INK



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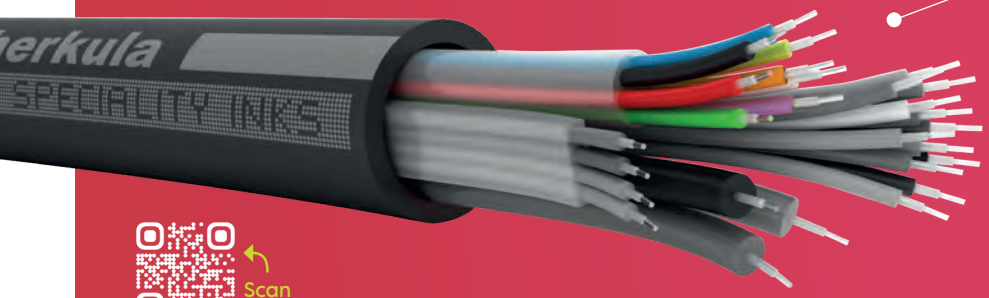
TIGHT BUFFER

COMPACT FIBRE UNIT



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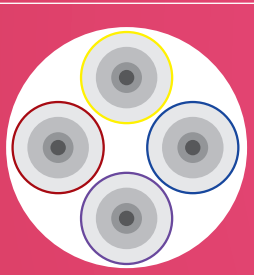

RIBBON

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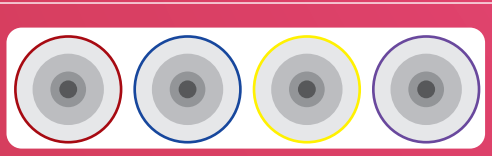


FIBRECOAT

UV INK / UV MATRIX MATERIALS

Since the start of the industrial production of optical fibre cables, Herkula is a supplier of special UV Inks and UV Matrix Materials to the industry throughout the world. The ink is necessary to ensure the distinction of optical fibres. Today, the product line FibreCoat is an important segment of Herkula. Over the years the product portfolio has been supplemented by further Matrix Materials for optical fibres such as Tight Buffer, Compact Fibre Unit and Ribbon.

INK

Our UV Ink can be used on every colouring line that is available in the market, and you can reach a line speed of up to 3000m/min. The cured Ink has a very good slip and surface finish, these properties support a robust production process so that e.g. the take up runs smoother. The 12 standard colour shades fulfil all specifications according to Munsell, BT and FT, and on request we can provide 4 additional shades. We are glad to announce that our FibreCoat inks are fully compatible with UV-LED curing lamps.

SERIES	LINE SPEED M/MIN	APPLICATION	PROPERTIES
813F	< 3000	UV curing system	Chemical and mechanical resistant
820	< 3000	UV-LED curing system	Chemical and mechanical resistant

TIGHT BUFFER

Herkula also offers UV and UV-LED Tight Buffer Matrix Materials. You can use our UV Tight Buffer materials as a single coating or as inner & outer coating. The advantage of a single coating on the one hand is that the processing is easier, on the other hand with the combination of an inner & outer coating you achieve a better strippability for a smooth installation of the finished cable. With our UV material you can reach a line speed of up to 1000 m/min. The Tight Buffer materials are available in different kinds of softness and several colour shades. Finally, we want to inform you that selected Tight Buffer materials are available with flame retardant und high temperature resistant properties.

	SERIES	CHARACTERISTICS	DEGREE OF HARDNESS
Single coating	831/815	High bending modulus	
	834/815	Flame retardant with high bending modulus	
	827F	Balanced mechanical properties	
	833	Flame retardant with soft bending modulus	
	830/812	Soft bending modulus	
Outer coating	831/816	Blown-Fibre	
	831/814	High bending modulus	
	831/815	High bending modulus	
	834/815	Flame retardant with high bending modulus	
	827F	Balanced mechanical properties	
	833	Flame retardant with soft bending modulus	
Inner coating	830/801	Improved strippability	
	830/807	Improved adhesion	

COMPACT FIBRE UNIT

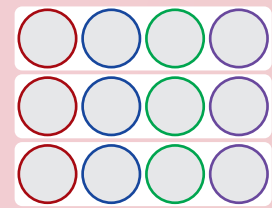
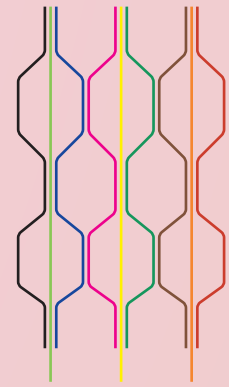
To create a Compact Fibre Unit a multi fibre coating and curing system is required. With this kind of system, you can place multiple fibres closely to each other in a circular structure and coating them with our UV or UV-LED Matrix Material. A single CFU can contain up to 12 fibres. The line speed depends on the fibre count. The space saving CFU structure allows for optimum use of space and weight in the cable. Our materials offer an excellent strippability to support a smooth installation of the finished cable.

	SERIES	CHARACTERISTICS	DEGREE OF HARDNESS
Single coating	831/815	High bending modulus	
	834/815	Flame retardant with high bending modulus	
	827F	Balanced mechanical properties	
	833	Flame retardant with soft bending modulus	
	830/812	Soft bending modulus	
Outer coating	831/816	Blown-Fibre	
	831/814	High bending modulus	
	831/815	High bending modulus	
	834/815	Flame retardant with high bending modulus	
	827F	Balanced mechanical properties	
	833	Flame retardant with soft bending modulus	
Inner coating	830/801	Improved strippability	
	830/807	Improved adhesion	

RIBBON/FLEXIBLE RIBBON

Standard Ribbon – To apply our Matrix Material onto fibres, a ribbon line is required. With such a Ribbon line you can place the fibres side by side next to each other and coating them with our UV Matrix Material. A standard Ribbon can contain up to 24 fibres and they can get stacked up to a height of 22 layers. The line speed depends on the fibre count. Our materials offer an excellent strippability to support a smooth installation of the finished cable.

Flexible Ribbon – A special UV-LED curing line is necessary to achieve this Flexible Ribbon structure. Compared to the standard Ribbon system the fibres are only bonded selectively with our Matrix Material. This flexible structure allows to fix 16 fibres in the cable for optimum use of space and weight. Due to the selectively placed bonds, a smooth installation can be enabled.

SERIES	CHARACTERISTICS	APPLICATION	CROSS SECTION
827 F	Standard modulus Ribbon	UV curing system	
829	High Flexible Ribbon	UV-LED curing system	

HERKULA

HIGH-CHEM SPECIALITY INKS

The beginnings of Herkula date back to 1894. At Herkula, we have invested our many years of existence into the perfection of our craft. The know-how we have accumulated over these years is unrivalled in the industry.

The core business of Herkula consists of the development, production and distribution of special inks, varnishes and coating materials for the cable and plastic industries. We maintain two state-of-the-art R&D laboratories which work in close cooperation with our customers to develop customized solutions for individual requirements. Furthermore, Herkula brings new innovative products to the market in order to comply with evolving industry standards.

We supply over 475 well-known industrial companies in 66 countries with cutting-edge products that meet the required high-quality standards. Herkula is proudly characterized by experience, innovation and expertise.

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